SHARP

Stylish, incredibly thin multimedia LCD monitor and full function television all in one.
A computer monitor never looked so good, or did so much.

LCD TV Monitor

LL-171MU
17" Wide XGA (1,280 x 768)

LL-151MU
15" XGA (1,024 x 768)

LL-171MU WIDE

LL-151MU 4:3

■ Built-in TV Tuner lets you watch high resolution TV without having to start up your PC
This display is both a full function LCD TV with TV tuner, and a superior quality LCD computer monitor. You can easily connect any video source including DVD players, VCR's, camcorders, Cable or Satellite TV, in addition to your personal computer.

■ Incredibly thin space saving design for easy portability
A built-in carrying handle lets you easily carry the monitor to different rooms in the house.
A protective panel is provided (LL-171MU) to ensure bright pictures and protect against bumps and scratches when moving the monitor.

■ Environment-friendly design and Power Save mode
With a touch of a button on the remote control, these monitors can be switched to power saving mode that reduces unnecessary screen brightness and lowers power consumption. They also place less burden on the environment than ever before, with the use of non-halogen material for the main unit cabinet and do not ship with Styrofoam packing.

■ "Picture-in-Picture" function
Enables you to check TV programs in a small screen while working on your PC.
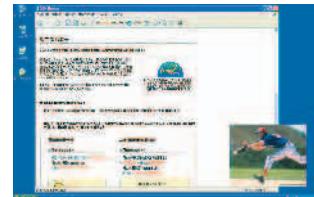
■ High quality picture technology for beautiful video reproduction
❶ 4-line Y/C separation function (Adaptive 4-line comb filter)
Reduces moire color noise called "cross-color interference" and reproduces stable images.
❷ High quality picture IP conversion function for smooth reproduction of video with rapid movement (LL-171MU)
Alleviates comb noise produced at the edges of moving video when converting an interlaced scan signal to a progressive scan signal, for smooth reproduction with a high quality picture.
❸ Color Transient Improvement (CTI) picture quality correction function (LL-171MU)
Corrects waveform distortion produced in the video transmission system, and displays color video with good definition.
❹ Equipped with a Digital Noise Reduction (DNR) function (LL-171MU)
Reduces noise contained in the picture. Realizes video with little perceptible noise.

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INGENUITY AT WORK

LL-171MU WIDE

The 17" WXGA model enables you to enjoy DVD[*1] on a wide screen.

■ Employs a high-performance LCD screen that reproduces beautiful, bright images.

■ High brightness 400cd/m2 Contrast ratio 600:1
  Viewing angle:Horizontal 170º,Vertical 170º

■ 17-inch WXGA(1,280 x 768dots)[*2]

■ Cable Management
Fed up with unsightly tangled cables? The integrated cable harness neatly bundles all cables on the rear of the monitor stand.

■ Reproduces glossy images using a screen protection panel.

■ Screen can be adjusted independently in two modes: PC and TV/Video.

■ Equipped with a D1 terminal for beautiful DVD display. Has two AV input channels.

■ TV/Video Mode: You can select from 3 modes to best suit the video.

Normal Mode	Wide Mode	Zoom Mode
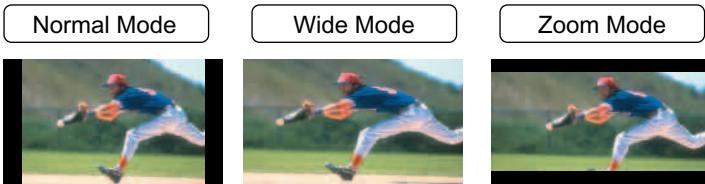
■ PC Mode: Equipped with 2 display modes -- "Fixed aspect ratio (Enlarged)" and "Full screen (Enlarged)."

■ W17.0 x D7.2x H14.7(inch)

LL-151MU 4:3

15" XGA model with 4:3 screen

■ Equipped with a high-brightness LCD for bright, easy-to-see to video.

■ 15-inch XGA(1,024 x 768dots)

■ One AV input channel enables you to enjoy games and video.

■ PC Mode: "Full screen (Enlarged)" display only.

■ W14.1x D7.2x H14.7(inch)

*1:A DVD drive is not built in. To view a DVD, you must connect a commercially available DVD player. It may not be possible to connect some devices.

*2: The PC/graphic board must support 1280 x 768 mode.

■ System Examples

DVD player
Antenna
Video
PC
Game
Power
Headphone

● LL-151MU has only 1 video input   ● Equipments other than LL-171MU/151MU are not included

LL-171MU
17.01
14.69
12.83
10.43
7.24
3.07
Down 5˚ Up 20˚ Tilt

LL-151MU
14.13
14.69
12.83
10.43
7.24
2.83
Down 5˚ Up 20˚ Tilt

(inches)
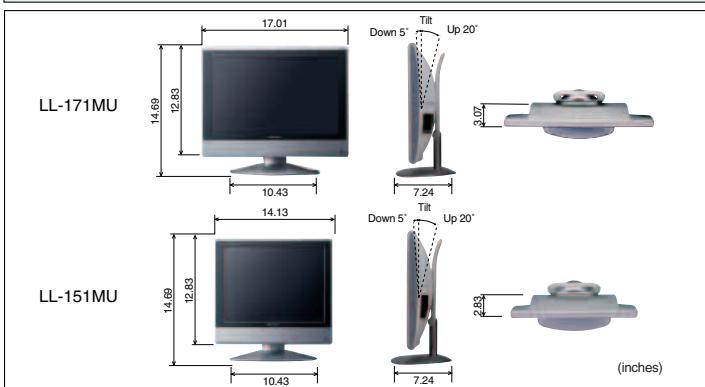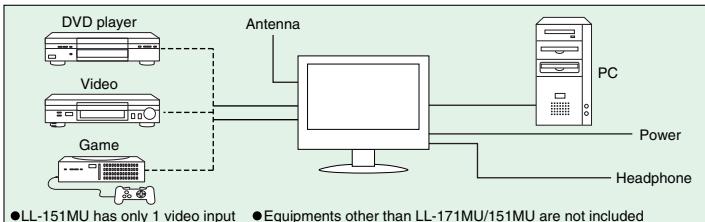
■ More About this Product

■ Using the Product
● The TFT color LCD panel used in this monitor is made with the application of high precision technology. However, there may be minute points on the screen where pixels never light or are permanently lit.Also, if the screen is viewed from an acute angle there may be uneven colors or brightness. Please note that these are not malfunctions but common phenomenon of LCDs and will not affect the performance of the monitor. ●Do not leave the screen idle for a long periods of time with a static image, as this could cause an after image to remain. ●The estimated backlight life of 50,000 hours is based on specific conditions of use. Hours of life obtained will depend on the surroundings of the monitor and actual conditions of use.

■ Specifications

	Model Name		LL-171MU	LL-151MU
LCD Panel			17 inch TFT (43cm)	15 inch TFT (38cm)
	Display resolution		WXGA (1,280 x 768 dots)	XGA (1,024 x 768 dots)
	Display size (H/V)		369.6 x 221.76mm (14.6 x 8.7in)	304.1 x 228.1mm (12.0 x 9.0in)
	Pixel pitch (H/V)		0.289mm x 0.289mm	0.297mm x 0.297mm
	Display colors		16.19 million colors (6bit + FRC)	
	Brightness		400cd /m2 (TV/AV Mode) *1 / 260cd /m2 (PC Mode)	300cd /m2 (TV/AV mode*1 & PC mode)
	Contrast ratio		600:1	350:1
	Viewing angle		Horizontal 170˚/ Vertical 170˚ (CR≧10)	Horizontal 160˚/ Vertical 135˚ (CR>5)
	Response time		25ms	
PC Input signal	Video		Analog RGB (0.7Vp-p)[75W]	
	Sync.		Analog H/V separate input (TTL:Positive/Negative), Sync on Green, Composite Sync.(TTL:Positive/Negative)	
Video signal format			NTSC	
Functions	Auto screen adjustment		Clock, Phase, H-POS, V-POS	
	Digital scaling		Full screen at fixed aspect ratio, Full screen	Enlargement to full screen
	Plug & play		VESA DDC1/DDC2B	
	Power management		VESA DPMS	
	User controls (PC Mode)		Brightness, Black level, White balance, Contrast, Clock, Phase, Sound input select, Position (H/V), Language, Bright mode, Color mode, Volume	
	User controls (TV/AV Mode)		Brightness, Black level, Contrast, White balance, Sharpness, Channel set, MTS, Bright mode, V-chip, Closed caption, Language, MUTE, Volume, Sleep Timer	
	Picture-In-Picture (PC)		○	—
	View mode selection		○	—
	Still mode (TV/AV Mode)		○	—
Input signal	PC video		mini D-Sub 15 pin	
	PC audio		Mini-Stereo Jack (φ3.5mm)	
	AV In 1		RCA, S-Video	RCA, S-Video
	AV In 2		Component(Y/Pb/Pr) , RCA	—
	Audio in		RCA x 2	RCA x 1
Security			Kensington Lock	
Channel Coverage			VHF:2~13, UHF:14~69, CATV:1-125	
Sound	Headphone		Mini-Stereo Jack (φ3.5mm)	
	Speaker		2.7W + 2.7W	
Screen tilt angle			Up 20˚ / Down 5˚	
Free mount interface			VESA 100mm pitch	VESA 75mm pitch
Backlight life			Approx. 50,000hours *2 Aprprox 25,000hours *3	Approx. 50,000hours
Operating temperature			5˚C to 35˚C (41˚F to 95˚F)	
Dimensions (W x D x H)			17.0" x 7.2" x 14.7"	14.1" x 7.2" x 14.7"
Weight			5.9kg (12.9lbs. w/o AC adapter & cables)	4.4kg (9.7lbs. w/o AC adapter & cables)
Power supply			AC110-240V, 50Hz / 60Hz	
Power consumption			55W (Power save mode 2W)	35W (Power save mode 2W)
Accessories			Analog Signal Cable (mini D-sub 15pin - mini D-sub 15pin), AC-adapter, Power cord, PC audio cable(1.8m), Cable Clamp, CD-ROM (Utility including ICC Profile for Windows® / Macintosh®), Antenna Cable(4.0m), Remote control unit, Batteries for RC (AAA), Operation Manual	
Regulatory approvals			UL, cUL, FCC, EPA-Energy Star Program	

*1 When "White Balance" is set to "Warm"
*2 When "PC Mode" and "TV/AV Mode" (Bright Mode:Normal)   *3 When "Brightness" is set to max.
● VESA:Video Electronics Standards Association
● DDC:Display Data Channel   ● DPMS:Display Power Management Signaling

■ Display Mode

Display Mode (pixels)		Horizontal Scan (kHz)	Vertical Scan (Hz)	Dot Frequency
VESA	640 x 480	31.5kHz	60Hz	25.175MHz
		37.9kHz	72Hz	31.5MHz
		37.5kHz	75Hz	31.5MHz
	800 x 600	35.1kHz	56Hz	36.0MHz
		37.9kHz	60Hz	40.0MHz
		48.1kHz	72Hz	50.0MHz
		46.9kHz	75Hz	49.5MHz
	1,024 x 768	48.4kHz	60Hz	65.0MHz
		56.5kHz	70Hz	75.0MHz
		60.0kHz	75Hz	78.75MHz
WXGA*	1,280 x 768	47.986kHz	60Hz	81.0MHz
		60.15kHz	75Hz	102.977MHz
US TEXT	720 x 400	31.5kHz	70Hz	28.3MHz
Power Macintosh Series	640 x 480	35.0kHz	66.7Hz	30.2MHz
	832 x 624	49.7kHz	74.6Hz	57.3MHz
	1,024 x 768	60.2kHz	75Hz	80.0MHz

* WXGA 1,280 x 768 is only for LL-171MU

■ *Images can not be displayed if output from the PC is in interlaced.*
■ *Even if the signal is in one of the compatible display mode above, the display may not appear*
■ *on the screen correctly depending on the computer.*
■ *Frequencies for the Power Macintosh are reference values.*
■ *When connecting to one of the Power Macintosh Series, an adapter (commercially available) may be necessary.*
■ *Recommended resolution is 1,280 x 768 (LL-171MU)*
■ *Recommended resolution is 1,024 x 768 (LL-151MU)*

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